

## Message Text

UNCLASSIFIED

PAGE 01 STATE 229966

64

ORIGIN AEC-07

INFO OCT-01 EUR-08 IO-04 ISO-00 SCI-02 COME-00 EB-04

ACDA-05 FEA-01 L-01 NSC-05 CIAE-00 DODE-00 INR-05

NSAE-00 PA-01 RSC-01 USIA-06 PRS-01 SP-02 /054 R

66611

DRAFTED BY: USAEC:KPREES:JEB

APPROVED BY: OES/SCI/AE-JLBLOOM

USAEC:IP:GFHELFIRICH

EUR/CE-BAFLATIN

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P R 182048Z OCT 74

FM SECSTATE WASHDC

TO AMEMBASSY VIENNA PRIORITY

INFO USMISSION IAEA VIENNA

UNCLAS STATE 229966

E.O. 11652: NA

TAGS: ENRG, BEXP, AU

SUBJECT: AUSTRIA'S SECOND NUCLEAR POWER PROJECT - PRESS

REPORTS ON FLAWS IN U.S. NUCLEAR PLANTS -

REF: VIENNA 8248 AND 8579

1. RE YOUR REQUEST FOR ADDITIONAL INFORMATION TO DISPEL  
WIDESPREAD AND EXAGGERATED REPORTS ON SUBJECT MATTER, REPORT  
ON TESTIMONY GIVEN BY ARGONNE NATIONAL LABORATORY BEFORE  
ACRS OCTOBER 11 DETAILING RESULTS OF METALLURGICAL EXAMINA-  
TION AND FAILURE ANALYSES WILL BE POUCHED IMMEDIATELY  
UPON RELEASE, ANTICIPATED ABOUT OCTOBER 21. HIGHLIGHTS WILL  
BE CABLED. IN THE INTERIM, FOLLOWING GENERAL  
ARGUMENTS MAY BE HELPFUL:

. U.S. SAFETY REQUIREMENTS SECOND TO NONE, INCLUDING  
GERMANY. IN FACT, MOST FOREIGN SAFETY AND REGULATORY STANDARDS  
PATTERED ON THOSE OF U.S. GERMAN INDUSTRY CLAIMS OF MORE  
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 STATE 229966

RIGOROUS SAFETY REQUIREMENTS, POSSIBLY FOR COMMERCIAL ADVAN

TAGES, NOT SUPPORT BY OFFICIAL GERMAN GOVERNMENT PRONOUNCEMENTS.

. GERMANY'S SUCCESS IN SECURING 1ST PLANT ATTRIBUTED LARGELY TO MORE FAVORABLE FINANCING.

. EXTENSIVE PUBLICITY GIVEN PROBLEM IS TRIBUTE TO OPENNESS OF OUR SYSTEM, AND THE DETAILED EXAMINATIONS ORDERED FOR ALL BWRS ILLUSTRATIVE OF CONSERVATIVE AEC REGULATORY PHILOSOPHY.

2. AT COUNSELOR BIRBAUM'S REQUEST, AUSTRIAN EMBASSY WASHINGTON PROVIDED BY REGULATORY WITH TEXT OF AEC NEWS RELEASE OF SEPTEMBER 20 AND INFORMATION FROM REGULATORY BULLETIN NO. 74-10 AS FOLLOWS:

INSTRUCTIONS TO BWR LICENSEES:

COMMONWEALTH EDISON COMPANY NOTIFIED REGION III OFFICE OF DIRECTORATE OF REGULATORY OPERATIONS BY TELEPHONE SEPT. 13-15, 1974, OF FINDING OF THROUGH-WALL CRACKS IN EACH OF TWO 4-INCH DIAMETER BYPASS LOOPS AROUND DISCHARGE VALVES OF RECIRCULATION PUMPS OF DRESDEN 2 FACILITY. EARLY WARNING OF REACTOR COOLANT LEAKAGE WAS PROVIDED BY PLANT'S DRYWELL SUMP COLLECTION SYSTEM.

IN EACH INSTANCE, CRACKS WERE IN HEAT AFFECTED ZONE OF STAINLESS STEEL WELDS JOINING 4-INCH PIPING TO WELD-O-LETS ON 28-INCH DIAMETER MAIN COOLANT RECIRCULATION PIPING. CRACKS WERE CIRCUMFERENTIAL, FROM 3/4 INCH TO 3 INCHES IN LENGTH ON THE EXTERIOR AND EXTENDING TO SUBSTANTIALLY GREATER LENGTHS ON INTERIOR OF PIPES.

IN ONE INSTANCE ("B" LOOP BYPASS LINE), AREA CONTAINING CRACK(S) CAN BE ISOLATED FOR REPAIR UTILIZING VALVES PRESENTLY INSTALLED. IN OTHER INSTANCE ("A" LOOP BYPASS LINE), AREA CONTAINING CRACKS CANNOT BE ISOLATED FROM REACTOR PRESSURE VESSEL WITH EXISTING VALVES IN PIPING SYSTEM. PROCEDURES FOR REPAIR OF THIS PORTION OF PIPING SYSTEM ARE PRESENTLY BEING CONSIDERED BY LICENSEE.

UNCLASSIFIED

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PAGE 03 STATE 229966

METALLURGICAL EXAMINATIONS ARE BEING CONDUCTED BY LICENSEE'S CONSULTANTS TO AID IN DETERMINING CAUSE AND MECHANISM OF FAILURE. SEVERAL DAYS MAY BE REQUIRED FOR SUCH DETERMINATION.

INSPECTIONS CONDUCTED BY COMMONWEALTH EDISON COMPANY AT QUAD CITIES 2 ON SEPTEMBER 15, 1974, HAVE REVEALED CRACK

IN SIMILAR PIPING AT THAT FACILITY.

ACTION REQUESTED OF LICENSEES:

1. FOR THOSE BWR FACILITIES PRESENTLY SHUT DOWN,  
EXAMINE (BY ULTRASONIC OR OTHER SUITABLE VOLUMETRIC  
NONDESTRUCTIVE EXAMINATION TECHNIQUE) ALL ACCESSIBLE  
WELDS IN BYPASS PIPING LINES AROUND RECIRCULATION VALVES  
FOR EVIDENCE OF CRACK INDICATIONS SIMILAR TO THOSE  
DISCUSSED ABOVE. YOUR WRITTEN REPLY SHOULD DISCUSS  
THOSE WELDS DETERMINED TO BE INACCESSIBLE  
FOR EXAMINATION.

2. FOR THOSE BWR FACILITIES PRESENTLY OPERATING, CONDUIT  
EXAMINATIONS DISCUSSED IN 1. ABOVE AT EARLIEST OF FOLLOWING  
CONDITIONS:

A. NEXT SCHEDULED SHUTDOWN

B. SUCH TIME THAT (WITHIN SENSITIVITY SPECIFIED IN  
PARAGRAPH C-5 OF REGULATORY GUIDE 1.45) ANY REACTOR  
COOLANT LEAKAGE DETECTION SYSTEM INDICATES, WITHIN  
PERIOD OF 4 HOURS OR LESS, EITHER AN INCREASE IN  
UNIDENTIFIED LEAKAGE TO TWICE DETERMINED NORMAL RATE OF  
UNIDENTIFIED LEAKAGE OR AN INCREASE IN RATE OF UNIDENTIFIED  
LEAKAGE BY 2 GALLONS PER MINUTE  
OR MORE. (IN NO CASE, HOWEVER, SHALL RATE OF  
LEAKAGE EXCEED THAT SPECIFIED BY TECH SPECS WITHOUT  
THOSE ACTIONS REQUIRED OF TECH SPECS BEING TAKEN.)

C. 60 DAYS FROM DATE OF THIS BULLETIN (9/18/74).

3. NOTIFY THIS OFFICE BY TELEPHONE WITHIN 48 HOURS AND IN  
UNCLASSIFIED

UNCLASSIFIED

PAGE 04 STATE 229966

WRITING WITHIN 10 DAYS OF MEASURES YOU HAVE IMPLEMENTED  
OR PLAN TO IMPLEMENT WITH REGARD TO THOSE ACTIONS  
REQUESTED IN 1. AND/OR 2., ABOVE.

4. NOTIFY THIS OFFICE BY TELEPHONE WITHIN 24 HOURS  
(WITH WRITTEN CONFIRMATION WITHIN 10 DAYS) OF RESULTS  
OF EXAMINATIONS CONDUCTED IN RESPONSE TO THIS BULLETIN.

ACTIONS REQUESTED OF LICENSEES MAY BE MODIFIED:  
ACTIONS REQUESTED OF LICENSEES, ABOVE, MAY BE MODIFIED BY  
THIS OFFICE AS MEANINGFUL RESULTS ARE AVAILABLE FROM  
METALLURGICAL EXAMINATIONS AND FAILURE ANALYSES PRESENTLY  
IN PROGRESS. END:DIP:GFH KISSINGER

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** NUCLEAR ENERGY, PROGRAMS (PROJECTS)  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 18 OCT 1974  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
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**Disposition Remarks:**  
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**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** USAEC:KPREES:JEB  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
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**Office:** ORIGIN AEC  
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**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
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**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
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**Review Comment:** n/a  
**Review Content Flags:**  
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**Review Exemptions:** n/a  
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**Review Markings:**

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30 JUN 2005

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**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
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**Subject:** AUSTRIA'S SECOND NUCLEAR POWER PROJECT - PRESS REPORTS ON FLAWS IN U.S. NUCLEAR PLANTS -  
**TAGS:** ENRG, BEXP, AU, ARGONNE NATIONAL LABORATORIES  
**To:** VIENNA  
**Type:** TE  
**Markings:** Declassified/Released US Department of State EO Systematic Review 30 JUN 2005